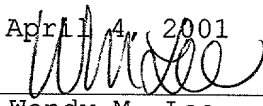


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<p>In re Application of</p> <p>Robert Akita et al.</p> <p>Serial No.: To Be Assigned</p>	<p>Group Art Unit: To Be Assigned</p> <p>Examiner: To Be Assigned</p>
<p>Filed: April 4, 2001</p> <p>For: ISOLATED NUCLEIC ACIDS, VECTORS AND HOST CELLS ENCODING ErbB3 ANTIBODIES (AS AMENDED)</p>	<p>CERTIFICATE OF EXPRESS MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231.</p> <p>Express Mail Label No. EL 599 585 468 US</p> <p>April 4, 2001</p> <p></p> <p>Wendy M. Lee</p>

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

IN THE TITLE:

Please replace the title beginning at page 1, line 7 and page 56, line 1 with the following title: --ISOLATED NUCLEIC ACIDS, VECTORS AND HOST CELLS ENCODING ErbB3 ANTIBODIES--

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 1, line 11, with the following rewritten paragraph:

--This application is a divisional of U.S. Application Serial No. 09/316,981 filed May 24, 1999, which is a continuation of U.S. Application Serial No. 08/827,009 filed March 25, 1997 (now U.S. Patent No. 5,968,511 issued October 19, 1999), which is a non-provisional application filed under 37 CFR 1.53(b)(1), claiming priority under USC §119(e) to provisional Application Serial No. 60/046,850 filed March 27, 1996 (now abandoned), which applications are incorporated herein by reference.--

Please replace the paragraph beginning at page 3, line 12, with the following rewritten paragraph:

--The quest for an activator of the HER2 oncogene has lead to the discovery of a family of heregulin polypeptides. These proteins appear to result from alternative splicing of a single gene which was mapped to the short arm of human chromosome 8 by Lee *et al.*, *Genomics*, 16:790-791 (1993); and Orr-Urtreger *et al.*, *Proc. Natl. Acad. Sci. USA*, 90:1867-1871 (1993).--

Please replace the paragraph beginning at page 44, line 16, with the following rewritten paragraph:
--The following hybridoma cell line has been deposited with the American Type Culture Collection, 10801 University Blvd., Manassas, VA 20110-2209 (ATCC):--

IN THE CLAIMS:

Prior to prosecution, please add the following claims to the application:

- 22. (NEW) An isolated nucleic acid encoding an antibody, wherein the antibody binds to ErbB3 protein and reduces heregulin-induced formation of an ErbB2-ErbB3 protein complex in a cell which expresses ErbB2 and ErbB3.
23. (NEW) The isolated nucleic acid of claim 22 wherein the antibody further increases the binding affinity of heregulin for ErbB3 protein.
24. (NEW) The isolated nucleic acid of claim 22 wherein the antibody further reduces heregulin-induced ErbB2 activation in the cell.
25. (NEW) The isolated nucleic acid of claim 22 wherein the antibody is a monoclonal antibody.
26. (NEW) The isolated nucleic acid of claim 22 wherein the antibody is humanized.
27. (NEW) The isolated nucleic acid of claim 22 wherein the antibody is human.
28. (NEW) The isolated nucleic acid of claim 22 wherein the antibody is an antibody fragment comprising an antigen binding region.
29. (NEW) The isolated nucleic acid of claim 28 wherein the antibody fragment is a Fab.

30. (NEW) An isolated nucleic acid encoding an antibody, wherein the antibody binds to ErbB3 protein and increases the binding affinity of heregulin for ErbB3 protein.
31. (NEW) An isolated nucleic acid encoding an antibody, wherein the antibody binds to ErbB3 protein and reduces heregulin-induced ErbB2 activation in a cell which expresses ErbB2 and ErbB3.
32. (NEW) An isolated nucleic acid encoding an antibody, wherein the antibody binds to ErbB3 protein and reduces heregulin binding thereto.
33. (NEW) The isolated nucleic acid of claim 32 wherein the antibody further reduces heregulin-induced ErbB2 activation in a cell which expresses ErbB2 and ErbB3.
34. (NEW) The isolated nucleic acid of claim 22 wherein the antibody binds to the epitope bound by the 8B8 antibody (ATCC HB-12070).
35. (NEW) The isolated nucleic acid of claim 22 wherein the antibody has the complementarity determining regions of the 8B8 antibody (ATCC HB-12070).
36. (NEW) A vector comprising the isolated nucleic acid of claim 22.
37. (NEW) A host cell comprising the isolated nucleic acid of claim 22.
38. (NEW) A method for making an antibody comprising culturing the host cell of claim 37 so that the nucleic acid is expressed and recovering the antibody from the host cell culture.
39. (NEW) The method of claim 38 further comprising conjugating the recovered antibody with a cytotoxic agent or enzyme.
40. (NEW) A vector comprising the isolated nucleic acid of claim 30.
41. (NEW) A host cell comprising the isolated nucleic acid of claim 30.

42. (NEW) A method for making an antibody comprising culturing the host cell of claim 41 so that the nucleic acid is expressed and recovering the antibody from the host cell culture.

43. (NEW) The method of claim 42 further comprising conjugating the recovered antibody with a cytotoxic agent or enzyme.

44. (NEW) A vector comprising the isolated nucleic acid of claim 31.

45. (NEW) A host cell comprising the isolated nucleic acid of claim 31.

46. (NEW) A method for making an antibody comprising culturing the host cell of claim 45 so that the nucleic acid is expressed and recovering the antibody from the host cell culture.

47. (NEW) The method of claim 46 further comprising conjugating the recovered antibody with a cytotoxic agent or enzyme.

48. (NEW) A vector comprising the isolated nucleic acid of claim 32.

49. (NEW) A host cell comprising the isolated nucleic acid of claim 32.

50. (NEW) A method for making an antibody comprising culturing the host cell of claim 49 so that the nucleic acid is expressed and recovering the antibody from the host cell culture.

51. (NEW) The method of claim 50 further comprising conjugating the recovered antibody with a cytotoxic agent or enzyme.--

REMARKS

Attached hereto is a marked-up version of the changes made to the title and specification by the current preliminary amendment. The attached page is captioned "Version with Markings to show changes made".

Respectfully submitted,

GENENTECH, INC.

By: _____

Wendy M. Lee

Reg. No. 40,378

Telephone: (650) 225-1994



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PATENT TRADEMARK OFFICE

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the title:

Please amend the title at page 1, line 7 and page 56, line 1 as follows:

ISOLATED NUCLEIC ACIDS, VECTORS AND HOST CELLS ENCODING ErbB3 ANTIBODIES

In the specification:

On page 1, please amend the paragraph starting at line 11 as follows:

[This is a non-provisional application filed under 37 CFR 1.53(b)(1), claiming priority under USC Section 119(e) to provisional Application Serial No. 60/_____ (to be assigned) filed March 27, 1996.] This application is a divisional of U.S. Application Serial No. 09/316,981 filed May 24, 1999, which is a continuation of U.S. Application Serial No. 08/827,009 filed March 25, 1997 (now U.S. Patent No. 5,968,511 issued October 19, 1999), which is a non-provisional application filed under 37 CFR 1.53(b)(1), claiming priority under USC §119(e) to provisional Application Serial No. 60/046,850 filed March 27, 1996 (now abandoned), which applications are incorporated herein by reference.

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On page 44, please amend the paragraph starting at line 16 as follows:

The following hybridoma cell line has been deposited with the American Type Culture Collection, [12301 Parklawn Drive, Rockville, MD, USA] 10801 University Blvd., Manassas, VA 20110-2209 (ATCC):

In the claims:

Please add new claims 22-51.